

DELPHION

INPADOC Record

INPADOC Record

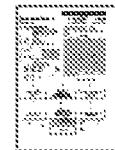
Search, Find, Download, Print, Export, Import, Document, Report

REFID

The Delphion Integrated View: INPADOC RecordBuy Now: [Buy Now](#)Tools: [Add to Work File](#)[Create new Work File](#)[Add](#)View: Jump to: [Top](#)[Go to Details](#)[Email this as a PDF](#)Title: **TW0496814B: PADLESS SUBSTRATE CARRIER**

Country: TW Taiwan

Kind: B Patent



High Resolution

Inventor: SOMMER, PHILLIP R.; United States of America
BUTTERFIELD, PAUL D.; United States of AmericaAssignee: OBSIDIAN INC. United States of America
[News, Profiles, Stocks and More about this company](#)

Published / Filed: 2002-08-01 / 2000-04-13

Application Number: TW2000089103430

Advanced: B24B 37/04; B24B 41/04; H01L 21/306;

Core: B24B 41/00; H01L 21/02; more...

IPC-7: B24B 7/24; B24B 37/04; H01L 21/304;

ECLA Code: None

Priority Number: 1999-02-25 US1999000258042

Apparatus and method of polishing substrates using a carrier that does not contact the backside of the substrate during polishing. The apparatus preferably forms an air bearing between the substrate and the carrier plate during polishing. Alternatively, liquids, or combinations of liquids and gases may be used to form the bearing layer. When a water layer is formed, at least a portion of the carrier plate is formed as a microporous force applicator. The apparatuses are also. Capable of adjusting the force profile that is applied to the substrate so as to differentially polish different areas of the substrate. A containment ring is provided for horizontal containment of the substrate during polishing and to define an area within which the substrate processes during polishing. A containment ring or barrier is also provided for processing with a substrate during polishing.

INPADOC Legal Status:

| Gazette date | Code | Description (remarks) |
|--------------|--------|--|
| 2002-11-25 | GD4A + | Issue of patent certificate for granted invention patent |

[Buy Now: Family Legal Status Report](#)

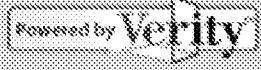
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Family:

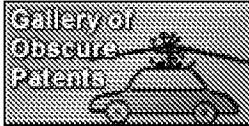
| Buy PDF | Publication | Pub. Date | Filed | Title |
|-------------------------------------|-------------------|------------|------------|-----------------------------|
| <input checked="" type="checkbox"/> | US6645050 | 2003-11-11 | 2000-11-20 | Multimode substrate carrier |
| <input type="checkbox"/> | US6276998B1 | 2001-08-21 | | |
| <input checked="" type="checkbox"/> | US6276998 | 2001-08-21 | 1999-02-25 | Padless substrate carrier |
| <input checked="" type="checkbox"/> | TW0496814B | 2002-08-01 | 2000-04-13 | PADLESS SUBSTRATE CARRIER |
| <input checked="" type="checkbox"/> | JP2000296457A2 | 2000-10-24 | 2000-02-25 | PAD-LESS SUBSTRATE CARRIER |
| <input checked="" type="checkbox"/> | EP1046464A1 | 2000-10-25 | 2000-02-24 | Substrate carrier |

6 family members shown above

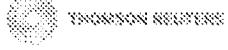
Other Abstract Info:



DERABS G2001-093564



Nominate this for the Gallery...


 Copyright © 1997-2008 Thomson Reuters
[Subscriptions](#) | [Web Seminars](#) | [Privacy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact Us](#) | [Help](#)